REV.2009.09.19

72 SERIES

Advanced Remote Starters & Vehicle Security Systems

ULTRA START™

INSTALLATION MANUAL

THIS MANUAL COVERS THE OPERATIONS OF THE 1172, 1272 & 3272 SERIES REMOTE STARTERS

WARNING: NEVER USE AN AUTOMATIC TRANSMISSION STARTER IN A MANUAL TRANSMISSION VEHICLE

www.ultrastarters.com

Note: Some features may not be available on certain models.

FCC ID NOTICE

This device complies with Part 15 of the FCC rules. Operation is subject to the following conditions:
1. This device may not cause harmful interference, and
2.This device must accept any interference received, including interference that may cause undesired operation.

CAUTION: Changes or modifications not expressly approved by the part responsible for compliance void the user's authority to operate this devise.

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QUICK VIEW WIRE DIAGRAM

OUTPUT TO ACTIVATE THE VEHICLES STARTER CIRCUIT	YELLOW
OUTPUT TO ACTIVATE THE VEHICLES ACCESSORY CIRCUIT	GREEN
12VOLT/ 30 AMP MAIN POWER INPUT	RED
12VOLT/ 30 AMP MAIN POWER INPUT	RED
SELECTABLE OUTPUT* (DEFAULT 2ND IGN) *SEE PAGE 11*	WHITE*
OUTPUT TO ACTIVATE THE VEHICLES IGNITION CIRCUIT	BLUE

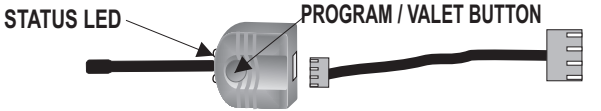
1 2 3 4 5 6

SYSTEM GROUND INPUT	BLACK
SELECTABLE PARK LIGHT OUTPUT (DEFAULT POSITIVE)	WHITE

1 2

(-) REARM OUTPUT - *PROGRAMMABLE - SEE PAGE 13*	YELLOW
(-) DISARM OUTPUT (PULSE WITH UNLOCK & BEFORE START)	BROWN
(-) AUXILIARY 1 OUTPUT - *PROGRAMMABLE - SEE PAGE 13*	BLACK
(-) AUXILIARY 2 OUTPUT - *PROGRAMMABLE - SEE PAGE 13*	RED/WHITE
(-) HORN OUTPUT - *PROGRAMMABLE - SEE PAGE 13*	WHITE/BLUE
(+) BRAKE SWITCH INPUT (12VOLT WHEN BRAKE IS PRESSED)	PINK
(-) HOOD PIN SWITCH INPUT (GROUND WHEN HOOD IS OPENED)	GREEN/WHITE
(+ / -) TACH DETECTION INPUT (CONNECT TO COIL, INJECTOR...)	BLUE/WHITE
(+) GLOW PLUG - *PROGRAMMABLE*/ (+) START TRIGGER - *SEE PAGE 13*	BLUE

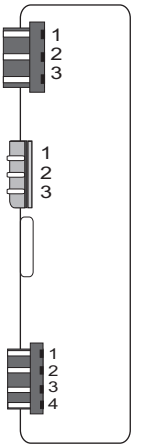
1 2 3 4 5 6 7 8 9



DO NOT INSTALL THIS SYSTEM INTO A MANUAL TRANSMISSION VEHICLE!!

QUICK VIEW WIRE DIAGRAM

OUTPUT TO ACTIVATE DOOR LOCK CIRCUIT (-)	GREEN
OUTPUT FOR VOLTAGE INVERTER*	N/A*
OUTPUT TO ACTIVATE DOOR UNLOCK CIRCUIT (-)	BLUE
(-) WHILE RUNNING OUTPUT (BYPASS TURN ON) / STARTER DISABLE	WHT/VIOLET
GROUND OUTPUT FOR BYPASS MODULE	BLACK
12VOLT OUTPUT FOR BYPASS MODULE	RED



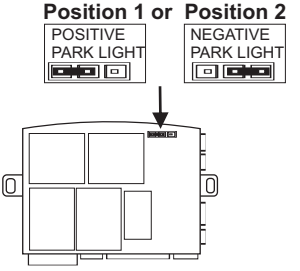
BYPASS MODULE DATA COMMUNICATION PORT***

***The default setting is for idatalink modules. For Fortin bypass modules power-up the system with the Fortin module connected to the data port to set the default to Fortin bypass module.**

*** THE CENTER PIN OF THE KEYLESS CONNECTOR IS LOW CURRENT AND IS DESIGNED TO SUPPLY POWER TO DOOR LOCK MODULES (DO NOT CONNECT TO RELAYS) OVERLOADING THIS OUTPUT WILL DAMAGE THE MODULE!**
****THIS CONNECTOR IS USED FOR ALARM MODELS ONLY.**
***** FOR USE WITH COMPATIBLE BYPASS MODULES ONLY.**

SELECTABLE PARK LIGHT OUTPUT

BY DEFAULT THE SYSTEM COMES WITH THE PARK LIGHT JUMPER SET FOR POSITIVE PARK LIGHT OUTPUT. TO CHANGE THE SYSTEM TO A NEGATIVE PARK LIGHT OUTPUT, PLACE THE JUMPER IN THE NEGATIVE PARK LIGHT POSITION SHOWN IN THE DIAGRAM. **(Position 2)**



QUICK VIEW PROGRAMMING

ENTERING PROGRAM MODE

1 - Cycle the Ignition Key On/Off On/Off On (Leaving the key ON)
2 - Press and release the Program Switch located on the antenna 1 time.
***The Horn will chirp and the park light will turn on to confirm that the system has entered Program Mode.**
3 - Select the Program Menu by pressing the button that corresponds to the desired Program Menu.

Press Lock	Press Unlock	Press Start	Press #
MENU 1	**MENU 2**	**MENU 3**	**MENU 4**

Note- The 1172 can only control features related to the Unlock and Start buttons.

4 - Press and Release the Program Switch to advance through the settings.
*The horn will chirp and LEDs flash the same number of times as the selected setting.
5 - Press and hold the Program Switch to change the setting.
(The horn will honk and the park lights will flash to indicate the option selected)
***6* - To exit Program Mode, turn the key off.**
(Confirmed by Long Horn Chirp)

SYSTEM RESET

1 - Cycle the Ignition Key On/Off On/Off On (**Leaving the key ON**)
2 - Press and **RELEASE** the Program Switch 1 time.
(Horn will chip to confirm program mode has been entered)
3 - Press and **HOLD** the Program Switch for 5 seconds or until the Horn Chirps 3 times.
4 - Turn the ignition key **OFF** to exit.

QUICK VIEW PROGRAMMING

PROGRAM MODE 1 - see page 16 for detailed instructions

PROGRAM MODE 1

SETTING # LED FLASHES	WIRE COLOR	SETTING DESCRIPTION	OPTION 1 1 CHIRP	OPTION 2 2 CHIRPS	OPTION 3 3 CHIRPS
1	**BLUE & GREEN** *(DOOR LOCK HARNESS)*	IGNITION AUTO-LOCK	IGNITION AUTO-LOCK / UNLOCK	IGNITION AUTO-LOCK ONLY	**IGNITION AUTO-LOCKS DISABLED**
2	**WHITE/BLUE** *(9 PIN CONNECTOR)*	HORN SETTINGS	HORN CHIRPS DISABLED	**HORN CHIRPS ENABLED**	
3	**BLUE & GREEN** *(DOOR LOCK HARNESS)*	DOOR LOCK PULSE OPTIONS	DOUBLE UNLOCK & SINGLE LOCK	DOUBLE LOCK & SINGLE UNLOCK	**SINGLE LOCK & SINGLE UNLOCK**
4	**BLUE & GREEN** *(DOOR LOCK HARNESS)*	DOOR LOCK / UNLOCK PULSES	0.25 SEC PULSES	3 SEC PULSES	**0.72 SEC PULSES**
5	**BLACK** *(9 PIN CONNECTOR)*	AUX OUTPUT 1	(-) ACCESSORY OUTPUT (#) ACTIVATES CAR FINDER	(-) START OUTPUT (#) ACTIVATES CAR FINDER	**AUX CHANNEL (#)**
6	**RED/WHITE** *(9 PIN CONNECTOR)*	AUX OUTPUT 2	DOME LIGHT OUTPUT	2ND UNLOCK	**TRUNK RELEASE**

PROGRAM MODE 2 - see page 19 for detailed instructions

PROGRAM MODE 2

SETTING # LED FLASHES	WIRE COLOR	SETTING DESCRIPTION	OPTION 1 1 CHIRP	OPTION 2 2 CHIRPS	OPTION 3 3 CHIRPS
1	**N / A**	VALET SETTINGS	SECURE VALET 15 SECONDS	**STANDARD VALET 5 SECONDS**	
2	**WHITE** *(2 PIN CONNECTOR)*	PARK LIGHT OUTPUT	30 SECONDS ON DISARM	**NORMAL OPERATION**	
3	**WHITE/BLUE** *(9 PIN CONNECTOR)*	HORN TIMING	5MS PULSED OUTPUT	50MS PULSED OUTPUT	**10MS PULSED OUTPUT**

Note- The 1172 can only control features related to the Unlock and Start buttons.

PROGRAM MODE 3 - see page 21 for detailed instructions

PROGRAM MODE 3

SETTING # LED FLASHES	WIRE COLOR	SETTING DESCRIPTION	OPTION 1 1 CHIRP	OPTION 2 2 CHIRPS	OPTION 3 3 CHIRPS
1	**WHITE** *(6 PIN CONNECTOR)*	SELECTABLE RELAY	2ND STARTER	2ND ACCESSORY	**2ND IGNITION**
2	**BLUE & GREEN** *(DOOR LOCK CONNECTOR)*	SPECIAL DOOR LOCK OPTIONS	UNLOCK BEFORE / LOCK AFTER START	LOCK AFTER STARTER SHUT OFF	**NO ADDITIONAL PULSES**
3	**BLUE** *(9 PIN CONNECTOR)*	GLOW PLUG/ START TRIGGER	(-) GLOW PLUG OR 20 SECONDS DELAY	POSITIVE TRIGGER TO START (1 PULSE)	**GAS/ POSITIVE GLOW PLUG**
4	**YELLOW** *(9 PIN CONNECTOR)*	RE-ARM OPTIONS	PULSE WITH LOCK	PULSE AFTER START (DEFROST / SEAT)	**PULSE WITH LOCK & AFTER SHUTDOWN**
5	**N / A**	RUNTIME	4 MINUTE RUNTIME	45 MINUTE RUNTIME	**15 MINUTE RUNTIME**
6	**N / A**	REMOTE START ACTIVATION	PRESS BUTTON TWICE TO START	**PRESS BUTTON ONCE TO START**	
7	**N / A**	LED FLASHES	LEDS DO NOT FLASH WHEN LOCKED/ ARMED	**LEDS FLASH WHEN LOCKED/ ARMED**	

PROGRAM MODE 4 - see page 23 for detailed instructions

PROGRAM MODE 4

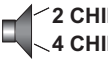
SETTING # LED FLASHES	WIRE COLOR	SETTING DESCRIPTION	OPTION 1 1 CHIRP	OPTION 2 2 CHIRPS	OPTION 3 3 CHIRPS
1	**BLUE / WHITE** *(9 PIN CONNECTOR)*	TACH OPTIONS	HYBRID MODE 1	HYBRID MODE TWO	**AUTO TACH / TACHLESS**
2	**N / A**	ADJUST FOR OVER-CRANK	INCREASES TACH SETTING BY 10%		
3	**N / A**	ADJUST FOR UNDER-CRANK	DECREASE TACH SETTING BY 10%		
4	**N / A**	TACH WAIT SETTINGS	300ms TACH CHECK DELAY	750ms TACH CHECK DELAY	**NO TACH CHECK DELAY**
5	**N / A**	BYPASS MODULE	FORTIN BYPASS	**IDATA LINK BYPASS**	

TIP- Power up the unit with the bypass module connected to set it for Fortin bypass module.

TACH / TACHLESS LEARNING

AUTO TACH/ TACHLESS LEARNING

Start the vehicle with the ignition key.



Horn/ Siren will chip to confirm that the Tach/ Tachless has been programmed.

To Tach/ Tachless Learn the system simply start the vehicle with the ignition key. To confirm that a proper Tach signal has been programmed the system will chirp the Horn/ Siren and flash the park lights two times. If the tach wire is not connected the park lights will flash and the horn will chirp 4 times to indicate Tachless Mode. **NEW- If the vehicle does not have a 12 volt starter wire let it run for 30-35 seconds. The LEDs will flash rapidly if a proper tach is detected then turn off when the tach programs.**

*****The system must be Tach Learned before remote starting*****

MANUAL TACH/ TACHLESS LEARNING

Hold the brake

Start the vehicle with the ignition key.

Horn/ Siren will chip to confirm that the Tach/ Tachless has been programmed.

Press and Hold the brake pedal, **Start the vehicle** with the key then **press and release** the program button then **hold for 5 seconds.** To confirm that a proper Tach signal has been programmed the system will chirp the Horn/ Siren and flash the park lights two times. If the tach wire is not connected the park lights will flash and the horn will chirp 4 times to indicate Tachless Mode. If the Tach is not learned when the start button is pressed the park lights will flash 7 times.

*****The system must be Tach Learned before remote starting*****

TACH NOTES

* If Tach does not learn check for proper connection on the starter wire, ignition wire and at the Tach connection. If the connections are good, reset the system and try again.
-For best results connect the Tach wire to a fuel injector wire.

* If the vehicle does not start when the remote starter is activated, the park lights will flash a diagnostic code. (See Diagnostic Chart).

**If the vehicle still does not start, check all connections and check for a factory installed Anti-Theft system. If the Anti-Theft prevents the vehicle from starting the remote start will flash the park lights 7 times. The system does not have to be Tach learned if this happens, simply start the vehicle with the key and let it run for 5 seconds then turn off.

TACH / TACHLESS LEARNING

TACH NOTES

*** If the vehicle does not have a starter wire a manual tach learn must be preformed. (See Page 8)**

**** If Tach does not learn check for proper connection on the starter wire, ignition wire and at the Tach connection. If the connections are good, reset the system and try again.**

-***For best results connect the Tach wire to a fuel injector wire.***

***** If the vehicle does not start when the remote starter is activated, the park lights will flash a diagnostic code. (See Diagnostic Chart).**

******If the vehicle still does not start, check all connections and check for a factory installed Anti-Theft system. If the Anti-Theft prevents the vehicle from starting the remote start will flash the park lights 7 times. The system does not have to be Tach learned if this happens, simply start the vehicle with the key and let it run for 5 seconds then turn off.**

SYSTEM WIRING DETAILS

PIN 1	YELLOW	STARTER OUTPUT	This wire will test 0V with the key off, in the Accessory position and when the Ignition is in the on. This wire is 12volts during the start/ crank position *only.*
PIN 2	GREEN	HEATER OUTPUT	This wire will test 0V when key is off, 12volts in the ACC and IGN positions and off during start/ crank position
PIN 3	RED	12v INPUT 30A	This input supplies the 12volt power for the Accessory and Starter outputs.
PIN 4	RED	12v INPUT 30A	This input supplies the 12volt power for the Accessory and Starter outputs.
PIN 5	BLUE	IGNITION OUTPUT	This wire will test 0V in the off and Accessory positions the switch to12volts in the Ignition and Start positions.
PIN 6	WHITE	SELECTABLE OUTPUT	2nd Ignition, Accessory or Start output. Programmable. Note: This output does not switch to default when the system is reset.

PIN 1	BLACK	SYSTEM GROUND	Connect to chassis ground.
PIN 2	WHITE	PARK LIGHT OUTPUT *(SELECTABLE)*	Connect to the vehicles positive Park light wire or change the jumper and connect to the vehicle negative Park light wire. The default position of the jumper is **Positive Park Light Output.**

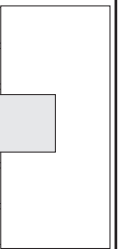
PIN 1	GREEN	(-) LOCK OUTPUT	Connect to lock wire from the switch on vehicles with a negative type switch. **LOW CURRENT ONLY**
PIN 2	N / A	12V + DOOR LOCK INVERTER	This output will supply 12volts for a plug-in type door lock module. Do not use this input to power-up relays **LOW CURRENT ONLY**
PIN 3	BLUE	(-) UNLOCK OUTPUT	Connect to unlock wire from the switch on vehicles with a negative type switch. **LOW CURRENT ONLY**

Note- The 1172 can only control features related to the Unlock and Start buttons.

SYSTEM WIRING DETAILS

6-PIN CONNECTOR

OUTPUT TO ACTIVATE START CIRCUIT	YELLOW
OUTPUT TO ACTIVATE ACCESSORY/ HEATER CIRCUIT	GREEN
30A HIGH CURRENT 12VOLT INPUT	RED
30A HIGH CURRENT 12VOLT INPUT	RED
SELECTABLE OUTPUT (DEFAULT SECOND IGNITION)	WHITE*
OUTPUT TO ACTIVATE IGNITION CIRCUIT	BLUE

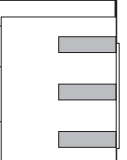


2-PIN CONNECTOR

SYSTEM GROUND INPUT	BLACK
JUMPER SELECTABLE PARK LIGHT OUTPUT (+ OR -)	WHITE

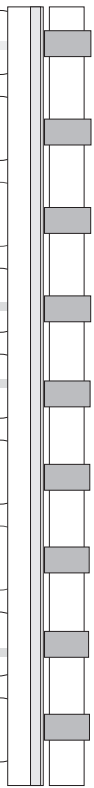
4 PIN AUXILIARY SENSOR CONNECTOR

NEGATIVE OUTPUT FOR LOCK	GREEN
12+ OUTPUT FOR DOOR LOCK MODULE	
NEGATIVE OUTPUT FOR UNLOCK	BLUE



SYSTEM WIRING DETAILS

9 PIN CONNECTOR



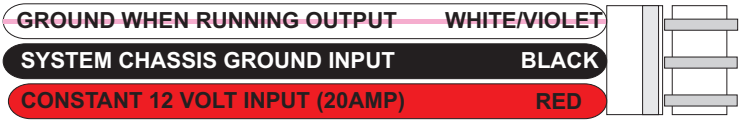
OUTPUT FOR FACTORY ALARM RE-ARM	YELLOW
OUTPUT FOR FACTORY ALARM DIS-ARM	BROWN
AUX OUTPUT 1 - NEG STARTER - PROGRAMMABLE	BLACK
AUX OUTPUT 2 - NEG TRUNK - PROGRAMMABLE	RED/WHITE
HORN HONK NEGATIVE - PROGRAMMABLE	WHITE/BLUE
BRAKE SWITCH INPUT (+) WHEN BRAKE IS PRESSED	PINK
HOOD PIN SWITCH INPUT (-) WHEN HOOD IS OPEN	GREEN/WHITE
(+ / -) TACH WIRE INPUT (CONNECT TO COIL, INJECTOR..)	BLUE/WHITE
NEG TRIGGER TO START / GLOW PLUG - PROGRAMMABLE	BLUE

Note- The 1172 can only control features related to the Unlock and Start buttons.

PIN 1	YELLOW	RE-ARM (-) *PROGRAMMABLE*	Supplies one .75 second pulse when locked and one .75 second pulse after remote start shutdown. Factory alarm re-arm/ RAP shutdown.
PIN 2	BROWN	DISARM (-)	Supplies one .75 second pulse when the unlock button is pressed and one .75 second pulse before remote start activation. For factory alarm dis-arm/ "wake up".
PIN 3	BLACK	AUX #1 OUTPUT (-) *PROGRAMMABLE*	Default- AUX channel output when the # button is held with no car finder on # button. It can also be programmed to a (-) Accessory or (-) Starter output with the (#) button activating car finder mode.
PIN 4	RED /WHITE	AUX #2 OUTPUT (-) *PROGRAMMABLE*	Default- Output activates when the Unlock button is held for at least 3 seconds. The output will stay on for 5 seconds or until the button is released. Programmable for Dome light Output or 2nd Unlock Output.
PIN 5	WHITE/BLUE	HORN OUTPUT (-) *PROGRAMMABLE*	Connect this wire to the factory Horn wire of the vehicle. This connection will provide audible confirmation when programming and when a function is performed.
PIN 6	PINK	BRAKE SWITCH INPUT (+)	This wire must be connected to the wire at the brake switch that changes to 12volts when the brake is pressed.
PIN 7	GRN/WHITE	HOOD PIN INPUT (-)	Connect this wire to the supplied hood pin switch. If ground is detected on this input the remote starter will not activate.
PIN 8	BLUE/WHITE	TACH WIRE INPUT (A/C)	This wire is used to to detect when the vehicle has started. The Tach source is typically taken from a fuel injector, coil, coil pack or crank position sensor. The Tach wire is generally found as the opposite from the common wire at the coil or fuel injector.
PIN 9	BLUE	GLOW PLUG INPUT (+)	Default Gas Mode or Positive Glow Plug if the Gray/Black is connected. Programmable for Negative Glow Plug or (+) Start Trigger.

SYSTEM WIRING DETAILS

3 PIN BYPASS CONNECTOR



1- WHITE/VIOLET Wire- Ground When Running (-)
Connect this wire to the your bypass modules negative turn on wire. When the remote starter is activated this wire will switch to ground.
2- BLACK Wire- System Ground (-)
Connect this wire to the ground input on the bypass module.
3- RED Wire- 12volt Power Input (+)
Connect this wire the 12volt input on the bypass module.

4 PIN DATA BYPASS

*****DATA LINK CONNECTOR - FOR USE WITH COMPATIBLE BYPASS MODULES ONLY*****
This connector eliminates the need to connect the lock, unlock, trunk, ignition, ground when running and other outputs to the bypass module. These function are controlled through this Data Link Connector.

TRANSMITTER PROGRAMMING

1 - Cycle the Ignition Key On/Off On/Off On. **(Leaving the key ON)**
2) Press and **HOLD** the Program Switch.
(The HORN will chirp 1 time, **CONTINUE to HOLD)**
If the HORN does not chirp turn the key off, then repeat step 1
3) Continue to **HOLD** the Program Switch and the HORN will chirp 5 times.
4) Press the **LOCK BUTTON** on each of remote's to be programmed.
**Pause for about 1 second between programming of each remote.*
System can accept 4 remotes max.
5) The Park lights will flash once and the HORN will chirp once each time a new code is learned.
6) Release the Program switch and turn Ignition OFF.

PROGRAM MODE

ENTERING PROGRAM MODE

1 - Cycle the Ignition Key On/Off On/Off On (Leaving the key ON)
2 - Press and release the Program Switch 1 time. (The Park lights will turn on and the Horn will chip to confirm that program mode was entered)
3 - Select the Program Menu by pressing...

Press Lock	Press Unlock	Press Start	Press #
MENU 1	**MENU 2**	**MENU 3**	**MENU 4**

SELECT AND CHANGE

4 - Press and Release the Program Switch to advance through the settings.
(*Confirmed by HORN chirps & LED flashes)*
5 - Press and hold the Program Switch to change the setting.
(Confirmed by HORN Chirps)
***6* - To exit Program Mode, turn key off.**
(Confirmed by Long HORN Chirp)

SYSTEM RESET

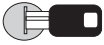
1 - Cycle the Ignition Key On/Off On/Off On (**Leaving the key ON**)
2 - Press and **RELEASE** the Program Switch 1 time.
(HORN will chip to confirm that program mode was entered)
3 - Press and **HOLD** the Program Switch for until the HORN Chirps 3 times.
4 - Turn ignition key **OFF** to exit.

Note- System reset does not delete the transmitter codes from memory or reset Menu 3 Setting 1 (selectable Output) back to second ignition. This setting must be manually changed.

Note- The 1172 can only control features related to the Unlock and Start buttons.

PROGRAM MODE

ENTERING PROGRAM MODE 1

IGNITION KEY	PROGRAM SWITCH	HORN CHIRP	REMOTE BUTTON
 ON/OFF - ON/OFF - ON (Leaving the key ON)	Press and release 1 time	1 CHIRP Confirming Program Mode	Press LOCK Button to Select Menu 1

SETTING 1- IGNITION AUTO-LOCKS

THE HORN WILL CHIRP 1 TIME WHEN SETTING 1 IS SELECTED

CHANGE SETTING 1 - PRESS & HOLD THE VALET SWITCH UNTIL THE HORN CHIRP(S)
GOTO SETTING 2 - PRESS & RELEASE THE VALET SWITCH

- 1 CHIRP — **SETS OPTION 1 – AUTO-LOCK & UNLOCK ENABLED-** The doors will lock when the key is turned on and unlock the when the key is turned off.
- 2 CHIRP — **SETS OPTION 2 – AUTO LOCK ONLY ENABLED-** The doors will lock when the key is turned on but will not unlock when te key is turned off.
- 3 CHIRP — **SETS OPTION 3 – AUTO LOCK DISABLED- The doors will not lock or unlock when the key is turned on or off. (DEFAULT)**

SETTING 2-HORN OUTPUT

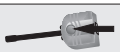
THE HORN WILL CHIRP 2 TIMES WHEN SETTING 2 IS SELECTED

CHANGE SETTING 2 - PRESS & HOLD THE VALET SWITCH UNTIL THE HORN CHIRP(S)
GOTO SETTING 3 - PRESS & RELEASE THE VALET SWITCH

- 1 CHIRP — **SETS OPTION 1 – HORN DISABLED-** The HORN and HORN and will activate with Panic and Car Finder Mode only.
- 2 CHIRPS — **SETS OPTION 2 – HORN OUTPUT- The HORN and the HORN* (alarm models) output will activate for all functions. (DEFAULT)**

SETTING 3-DOOR LOCK PULSES

THE HORN WILL CHIRP 3 TIMES WHEN SETTING 3 IS SELECTED



CHANGE SETTING 3 - PRESS & HOLD THE VALET SWITCH UNTIL THE HORN CHIRP(S)
GOTO SETTING 4 - PRESS & RELEASE THE VALET SWITCH

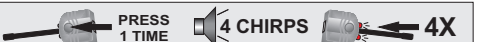
- 1 CHIRP — **SETS OPTION 1 – DOUBLE UNLOCK & SINGLE LOCK PULSE-** The system will provide 2 unlock pulses w/unlock and 1 lock pulse w/lock.
- 2 CHIRPS — **SETS OPTION 2 - DOUBLE LOCK & SINGLE UNLOCK PULSE-** The system will provide 2 lock pulses and 2 unlock pulses.
- 3 CHIRPS — **SETS OPTION 3 – NORMAL OPERATION- The system will pulse once for lock and once for unlock. (DEFAULT)**

CON'T ON NEXT PAGE

SYSTEM PROGRAMMING - Menu 1

CON'T FROM PREVIOUS PAGE

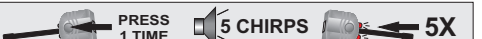
SETTING 4- DOOR LOCK TIMING
THE HORN WILL CHIRP 4 TIMES WHEN SETTING 4 IS SELECTED



CHANGE SETTING 4 - PRESS & HOLD THE VALET SWITCH UNTIL THE HORN CHIRP(S)
GOTO SETTING 5 - PRESS & RELEASE THE VALET SWITCH

- **1 CHIRP** — **SETS OPTION 1 - SHORT PULSES-** The output for lock and unlock is .25sec. *Helps prevent windows from rolling up/down on some vehicles.*.
- **2 CHIRPS** — **SETS OPTION 2 – LONG PULSES-** The output for lock and unlock is 3 seconds. *Used to activate vacuum door lock systems.*
- **3 CHIRPS** — **SETS OPTION 3 – NORMAL PULSES-** The output for lock and unlock is .75sec. ***Used for most vehicles. (DEFAULT)***

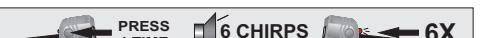
SETTING 5- AUX OUTPUT 1
THE HORN WILL CHIRP 5 TIMES WHEN SETTING 5 IS SELECTED



CHANGE SETTING 5 - PRESS & HOLD THE VALET SWITCH UNTIL THE HORN CHIRP(S)
GOTO SETTING 6 - PRESS & RELEASE THE VALET SWITCH

- **1 CHIRP** — **SETS OPTION 1 – NEGATIVE ACCESSORY OUTPUT-** Output acts as a negative accessory output. # Activates Car Finder Mode.
- **2 CHIRPS** — **SETS OPTION 2 – NEGATIVE STARTER OUTPUT-** Output acts as a negative starter output. # Activates Car Finder Mode.
- **3 CHIRPS** — **SETS OPTION 3 –AUXILIARY CHANNEL OUTPUT- Press and hold the # button to activate auxiliary with unlock and disarm pulse**. **(DEFAULT)**

SETTING 6- AUX CHANNEL 2
THE HORN WILL CHIRP 6 TIMES WHEN SETTING 6 IS SELECTED



CHANGE SETTING 6 - PRESS & HOLD THE VALET SWITCH UNTIL THE HORN CHIRP(S)
GOTO SETTING 7 - PRESS & RELEASE THE VALET SWITCH

- **1 CHIRP** — **SETS OPTION 1 – DOME LIGHT OUTPUT-** The turns on for 30 seconds with unlock and turns off with lock and ignition on.
- **2 CHIRPS** — **SETS OPTION 2 – 2nd UNLOCK-** The output will activate when the unlock button is pressed twice within 3 seconds.
- **3 CHIRPS** — **SETS OPTION 3 – TRUNK RELEASE- OUTPUT ACTIVATES WHEN UNLOCK BUTTON IS PRESSED AND HELD FOR 3 SECONDS (DEFAULT)**

Note- The 1172 can only control features related to the Unlock and Start buttons.

PROGRAM MODE

ENTERING PROGRAM MODE 2

IGNITION KEY	PROGRAM SWITCH	HORN CHIRP	REMOTE BUTTON
ON/OFF - ON/OFF - ON (Leaving the key ON)	Press and release 1 time	1 CHIRP Confirming Program Mode	Press UNLOCK Button to Select Menu 2

SETTING 1- VALET SETTINGS — PRESS 1 TIME — 1 CHIRP — 1X
THE HORN WILL CHIRP 1 TIME WHEN SETTING 1 IS SELECTED

CHANGE SETTING 1 - PRESS & HOLD THE VALET SWITCH UNTIL THE HORN CHIRP(S)
GOTO SETTING 2 - PRESS & RELEASE THE VALET SWITCH

- 1 CHIRP — **SETS OPTION 1 – SECURE-** The LED/ Program Switch must be held for 15 seconds to place the system into Valet Mode.
- 2 CHIRPS — **SETS OPTION 2 – STANDARD- The LED/ Program Switch must be held for 5 seconds to place the system into Valet Mode. (DEFAULT)**

SETTING 2-PARK LIGHT OUTPUTS — PRESS 1 TIME — 2 CHIRPS — 2X
THE HORN WILL CHIRP 2 TIMES WHEN SETTING 2 IS SELECTED

CHANGE SETTING 2 - PRESS & HOLD THE VALET SWITCH UNTIL THE HORN CHIRP(S)
GOTO SETTING 3 - PRESS & RELEASE THE VALET SWITCH

- 1 CHIRP — **SETS OPTION 1 – 30 SECOND-** The park light output will flash for all functions and will stay active for 30 seconds when unlock is pressed.
- 2 CHIRPS — **SETS OPTION 2 – NORMAL OPERATION- The park lights will flash for all functions. (DEFAULT)**

SETTING 3-HORN OUTPUT — PRESS 1 TIME — 3 CHIRPS — 3X
THE HORN WILL CHIRP 3 TIMES WHEN SETTING 3 IS SELECTED

CHANGE SETTING 3 - PRESS & HOLD THE VALET SWITCH UNTIL THE HORN CHIRP(S)
GOTO SETTING 4 - PRESS & RELEASE THE VALET SWITCH

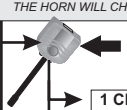
- 1 CHIRP — **SETS OPTION 1 – SHORT OUTPUT-** The HORN output will activate for 5ms when a function is preformed.
- 2 CHIRPS — **SETS OPTION 2 – LONG OUTPUT-** The HORN output will activate for 50ms when a function is preformed.
- 3 CHIRPS — **SETS OPTION 3 – NORMAL OUTPUT- The HORN output will activate for 10ms when a function is preformed. (DEFAULT)**

CON'T ON NEXT PAGE

ENTERING PROGRAM MODE 3

IGNITION KEY	PROGRAM SWITCH	HORN CHIRP	REMOTE BUTTON
ON/OFF - ON/OFF - ON (Leaving the key ON)	Press and release 1 time	1 CHIRP Confirming Program Mode	Press START Button to Select Menu 3

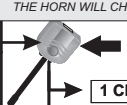
SETTING 1- SELECTABLE RELAY OUTPUT
THE HORN WILL CHIRP 1 TIME WHEN SETTING 1 IS SELECTED



CHANGE SETTING 1 - PRESS & HOLD THE VALET SWITCH UNTIL THE HORN CHIRP(S)
GOTO SETTING 2 - PRESS & RELEASE THE VALET SWITCH

- 1 CHIRP — **SETS OPTION 1 – SECOND STARTER-** The WHITE wire on the 6-pin connector acts as a Second Starter output.
- 2 CHIRPS — **SETS OPTION 2 –SECOND ACCESSORY-** The WHITE wire on the 6-pin connector acts as a Second Accessory output.
- 3 CHIRPS — **SETS OPTION 3 –SECOND IGNITION- The WHITE wire on the 6-pin connector acts as a Second Ignition output. (DEFAULT)**

SETTING 2-SPECIAL DOOR LOCK OPTIONS
THE HORN WILL CHIRP 2 TIMES WHEN SETTING 2 IS SELECTED



CHANGE SETTING 2 - PRESS & HOLD THE VALET SWITCH UNTIL THE HORN CHIRP(S)
GOTO SETTING 3 - PRESS & RELEASE THE VALET SWITCH

- 1 CHIRP — **SETS OPTION 1 –TYPE 2 -** The doors will unlock before remote start, lock when remote starter starts and again when the remote start shuts down.
- 2 CHIRPS — **SETS OPTION 2 – RE-LOCK-** The doors will automatically lock when the remote starter shuts down.
- 3 CHIRPS — **SETS OPTION 3 – NORMAL OPERATION- No additional door lock or door unlock pulses. (DEFAULT)**

CON'T ON NEXT PAGE

PROGRAM MODE

CON'T FROM PREVIOUS PAGE

SETTING 3- (+) GLOW PLUG/ INPUT TRIGGER TO START
THE HORN WILL CHIRP 3 TIMES WHEN SETTING 3 IS SELECTED

CHANGE SETTING 3 - PRESS & HOLD THE VALET SWITCH UNTIL THE HORN CHIRP(S)
GOTO SETTING 4 - PRESS & RELEASE THE VALET SWITCH

- 1 CHIRP — **SETS OPTION 1 – NEGATIVE GLOW PLUG/ 20 SECOND DELAY START**
- 2 CHIRP — **SETS OPTION 2 – POSITIVE TRIGGER TO START (1 PULSE)-** 1 (+) pulse on the input will activate remote starter.
- 3 CHIRP — **SETS OPTION 3 – GAS ENGINE/ POSITIVE GLOW PLUG**

SETTING 4- RE-ARM OPTIONS
THE HORN WILL CHIRP 4 TIMES WHEN SETTING 4 IS SELECTED

CHANGE SETTING 4 - PRESS & HOLD THE VALET SWITCH UNTIL THE HORN CHIRP(S)
GOTO SETTING 5 - PRESS & RELEASE THE VALET SWITCH

- 1 CHIRP — **SETS OPTION 1 - TYPE 2-** The rearm output pulses only when the lock button is pressed.
- 2 CHIRPS — **SETS OPTION 2 – AFTER START-** The re-arm output will pulse after the remote start starts the vehicle (DEFROST/ HEATED SEAT)
- 3 CHIRPS — **SETS OPTION 3 – REARM- Pulsed output when the doors are locked and after remote start shutdown. (DEFAULT)**

SETTING 5- RUN TIME
THE HORN WILL CHIRP 5 TIMES WHEN SETTING 5 IS SELECTED

CHANGE SETTING 5 - PRESS & HOLD THE VALET SWITCH UNTIL THE HORN CHIRP(S)
GOTO SETTING 6 - PRESS & RELEASE THE VALET SWITCH

- 1 CHIRP — **SETS OPTION 1 – 4 MINUTES-** The system will run for approximately 4 minutes then shut off.
- 2 CHIRPS — **SETS OPTION 2 – 45 MINUTES-** The system will run for approximately 45 minutes then shut off.
- 3 CHIRPS — **SETS OPTION 3 – 15 MINUTES- The system will run for approximately 15 minutes then shut off. (DEFAULT)**

ENTERING PROGRAM MODE 4

IGNITION KEY	PROGRAM SWITCH	HORN CHIRP	REMOTE BUTTON
ON/OFF - ON/OFF - ON (Leaving the key ON)	Press and release 1 time	1 CHIRP Confirming Program Mode	# Press # Button to Select Menu 4

SETTING 1- TACH OPTIONS
THE HORN WILL CHIRP 1 TIME WHEN SETTING 1 IS SELECTED

PRESS 1 TIME — 1 CHIRP — 1X

CHANGE SETTING 1 - PRESS & HOLD THE VALET SWITCH UNTIL THE HORN CHIRP(S)
GOTO SETTING 2 - PRESS & RELEASE THE VALET SWITCH

- 1 CHIRP — **SETS OPTION 1 – HYBRID 1-** The remote starter will ignore the Tach input after the remote start activates.
- 2 CHIRPS — **SETS OPTION 2 –HYBRID 2-** No Tach connection required. Starter wire defaults at 2 seconds.
- 2 CHIRPS — **SETS OPTION 3 –AUTO TACH LEARN- The system will automatically learns the vehicles Tach. Tachless on TL Models. (DEFAULT)**

SETTING 2-ADJUST FOR UNDER-CRANK
THE HORN WILL CHIRP 2 TIMES WHEN SETTING 2 IS SELECTED

PRESS 1 TIME — 2 CHIRPS — 2X

CHANGE SETTING 2 - PRESS & HOLD THE VALET SWITCH UNTIL THE HORN CHIRP(S)
GOTO SETTING 3 - PRESS & RELEASE THE VALET SWITCH

- 1 CHIRP — **Each time the HORN chirps the Tach setting is reduced by 10%**

SETTING 3-ADJUST FOR OVER-CRANK
THE HORN WILL CHIRP 3 TIMES WHEN SETTING 3 IS SELECTED

PRESS 1 TIME — 3 CHIRPS — 3X

CHANGE SETTING 3 - PRESS & HOLD THE VALET SWITCH UNTIL THE HORN CHIRP(S)
GOTO SETTING 4 - PRESS & RELEASE THE VALET SWITCH

- 1 CHIRP — **Each time the HORN chirps the Tach setting is increased by 10%**

SETTING 4- TACH WAIT
THE HORN WILL CHIRP 4 TIMES WHEN SETTING 4 IS SELECTED

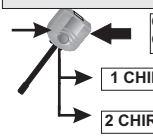
PRESS 1 TIME — 4 CHIRPS — 4X

CHANGE SETTING 4 - PRESS & HOLD THE VALET SWITCH UNTIL THE HORN CHIRP(S)
GOTO SETTING 1 - PRESS & RELEASE THE VALET SWITCH

- 1 CHIRP — **SETS OPTION 1 – 300ms-** The system will wait 300ms before starting to monitor the Tach input.
- 2 CHIRPS — **SETS OPTION 2 – 750ms-** The system will wait 750ms before starting to monitor the Tach input.
- 3 CHIRPS — **SETS OPTION 3 – NO WAIT- The system will monitor the Tach as soon as the vehicle has remote started. (DEFAULT)**

TACH / TACHLESS & HYBRID MODES

SETTING 5- BYPASS SELECTION
THE HORN WILL CHIRP 5 TIMES WHEN SETTING 2 IS SELECTED



CHANGE SETTING 5 - PRESS & HOLD THE VALET SWITCH UNTIL THE HORN CHIRP(S)
GOTO SETTING 1 - PRESS & RELEASE THE VALET SWITCH

1 CHIRP **SETS OPTION 1 –** FORTIN- Operation of Fortin bypass modules

2 CHIRPS **SETS OPTION 2 – IDATA- Operation of idata bypass modules.**

TIP- Power up the unit with the bypass module connected to set it for Fortin bypass module.

SETTING 1 HYBRID VEHICLE 1	**Connect the Tach wire to a Fuel Injector, Coil Pack, Coil or Crank Position Sensor. The system will Tach Learn the first time the car is started. The start wire is the trigger for the system to learn. (See Tach Learning) Once the system has remote started the Tach input will not be monitored for the programmed runtime.**
SETTING 2 HYBRID VEHICLE 2	**Tach wire connection is not necessary. When the remote starter is activated the system will power up normally with the exception of the start output. The start output will stay on for a preset time of 2 seconds then shut off. This setting must be programmed before the system can be remote started.**
SETTING 3 AUTO TACH/ TACHLESS LEARNING (DEFAULT)	**For Tach Mode connect the Tach wire to a Fuel Injector, Coil Pack, Coil or Crank Position Sensor. The system will Tach Learn the first time the car is started. The start wire is the trigger for the system to learn. If the vehicle does not have a start wire use the Manual Tach Learn proceeder. (See Tach Learning) In Tachless Mode the same procedure is followed except a connection to a Tach source is not required.**

TRANSMITTER PROGRAMMING

The system can lean up to 4 different remote's. Each remote to be used MUST be programmed together during the same sequence. For security, when a new remote is programmed all previous remote's are deleted. Please see remote operation chart for information on using Second Car / Pad Lock Operations.

ENTERING REMOTE PROGRAM MODE

1 - **Cycle the Ignition Key - ON/OFF ON/OFF ON (Leaving the key ON)**

2 - **HOLD the program switch, the HORN will chirp ONCE and the park lights will turn on. (If the HORN does not chirp repeat step 1) CONTINUE TO HOLD until the HORN chirps 5 times**

3 - **1 chirp confirms program mode entered followed by 5 chirps confirming transmitter program mode**

PROGRAMMING REMOTE'S

4 - **Press & Release LOCK (START ON 1172) button on 1st Remote to be Programmed for Normal Operation *If remote(s) are to be programmed for "PADLOCK" (AM 1way Only) skip and goto step 6***

5 - **HORN will Chirp 1 time to confirm remote has been programmed (If the HORN does not chirp press button again)**

REPEAT STEP 4 IF A SECOND REMOTE IS TO BE PROGRAMMED FOR NORMAL OPERATION

6 - **Press & Release BUTTON 4 on Remote to be Programmed for 2ND CAR OR PAD LOCK**

7 - **HORN will Chirp 1 time to confirm remote has been programmed (If the HORN does not chirp press button again)**

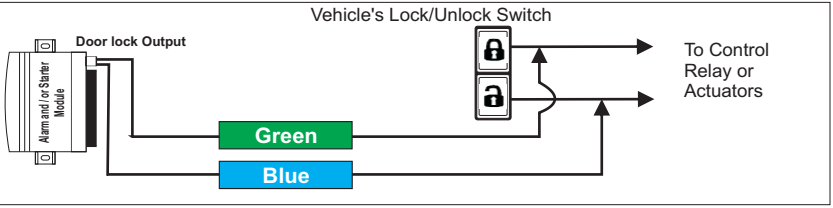
To program 2nd car operation on 2way models enter transmitter program mode and turn the # icon on then program the transmitter to the vehicle. If the # icon is on the remote is in 2nd car operation.

REPEAT STEP 6 IF A SECOND REMOTE IS TO BE PROGRAMMED FOR 2ND CAR / PADLOCK OPERATION

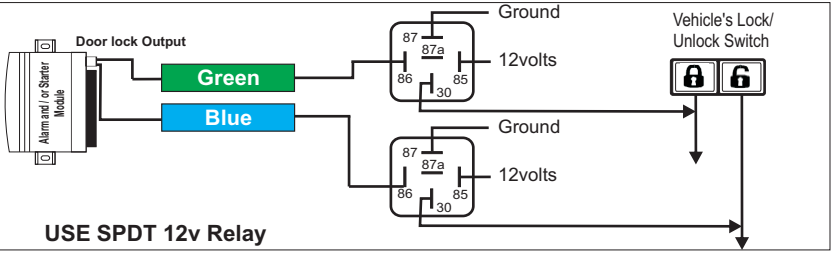
8 - **Turn ignition key OFF to exit remote program mode when all required remote's have been programmed.**

DOOR LOCK DIAGRAMS

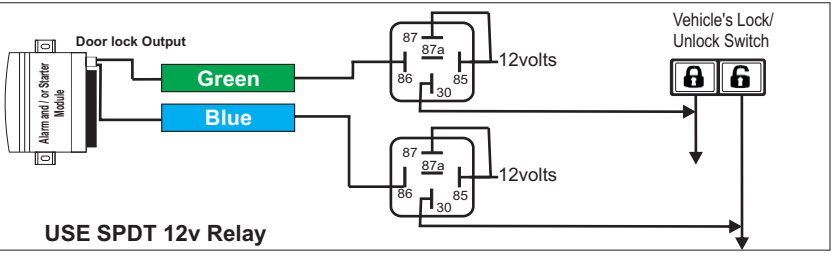
NEGATIVE DOOR LOCK (LOW CURRENT)



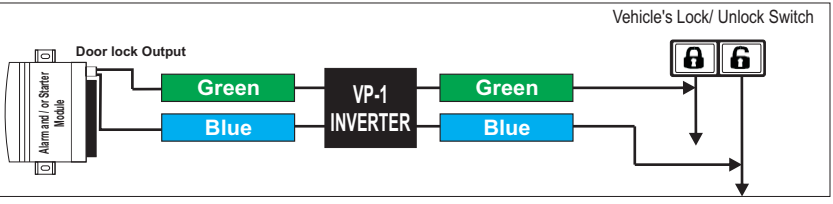
NEGATIVE DOOR LOCK (LOW CURRENT)



POSITIVE DOOR LOCK (LOW CURRENT)

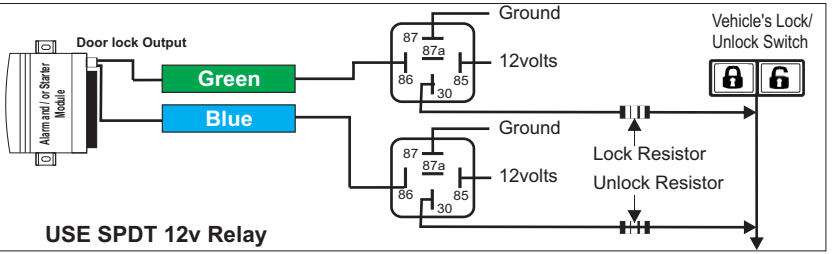


POSITIVE TYPE USING INVERTER

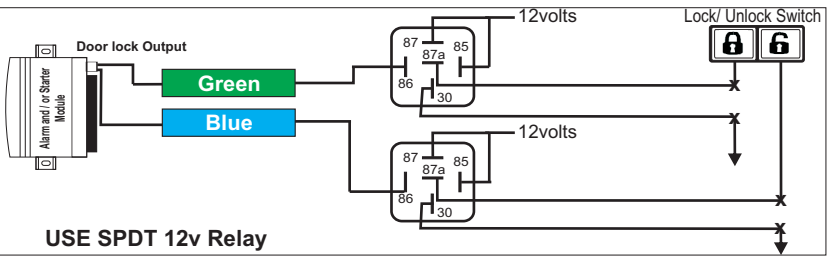


DOOR LOCK DIAGRAMS

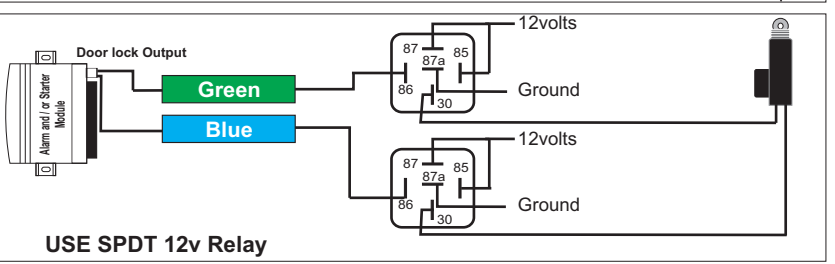
NEGATIVE ONE WIRE DOOR LOCKS



REVERSE POLARITY DOOR LOCK SYSTEM



AFTER-MARKET DOOR LOCK ACTUATORS



DIAGNOSTICS CHART

If the remote starter does not activate when the start button is pressed the park lights will flash a diagnostic to indicate what shutdown input has been triggered. For example: *If the start button is pressed the park lights flash 3 times slowly.* Looking at the chart below this would indicate that the system is in Service Mode, simply follow the instructions listed in the owners manual on exiting Service Mode and the remote starter will begin to function as normal.

PARK LIGHTS	STATUS LED	DIAGNOSTIC CODE
3 Slow Flashes	LEDs "ON" Solid	System Is In Service Mode
4 Slow Flashes	Series of 4 Flashes	Not in Reservation Mode
5 Flashes	Series of 5 Flashes	Hood Open
5 Slow Flashes	Series of 5 Flashes	Ignition On During Start Attempt
6 Flashes	Series of 6 Flashes	Brake Pedal Shutdown
7 Flashes	Series of 7 Flashes	Tach Lock-Out
8 Flashes	Series of 8 Flashes	3 Start Attempts Without Starting

TO ENTER DIAGNOSTIC MEMORY

Step 1- Turn the ignition ON then OFF. Press and release the Program Button.
Step 2- The system will respond with three park light flashes and the HORN (optional) will honk the same number of times as the events in memory.
*****Maximum four events, four honks*****
NOTE: If the HORN does not honk, there are no events in memory.
Step 3- Press the Program Button once to view the last shut down code. The HORN (optional)will honk once to confirm code one.
*****If the HORN does not honk, there are no codes in memory.*****
Step 4- The LEDs on the antenna will flash a code corresponding to a shut down trigger. Press the Program Button again for the second code.
****The HORN will honk twice to confirm code two three time for code three...****
Step 5- To **Clear Diagnostic Memory.** While in Diagnostic Mode press and hold the Program Button for five seconds. The park lights will flash and the HORN (optional) will honk once.

****Once diagnostic memory has 4 shutdown events in memory, the system will not record any further shutdown events until the system memory has been cleared.****

LED Flashes	Diagnostic
5 Flashes	The system was shutdown by the brake switch input
6 Flashes	The system was shutdown by the hood pin input
7 Flashes	The system did not detect the Tach signal.
8 Flashes	The system made 3 start attempts without starting

**FOR DETAILED VEHICLE WIRING INFORMATION GO TO:
http://www.ultrastarters.com/wiring_diagrams.html

This site is for registered and authorized dealer only.

If you are an authorized dealer but have been registered, please fill out the service request form at
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